

Figure 1

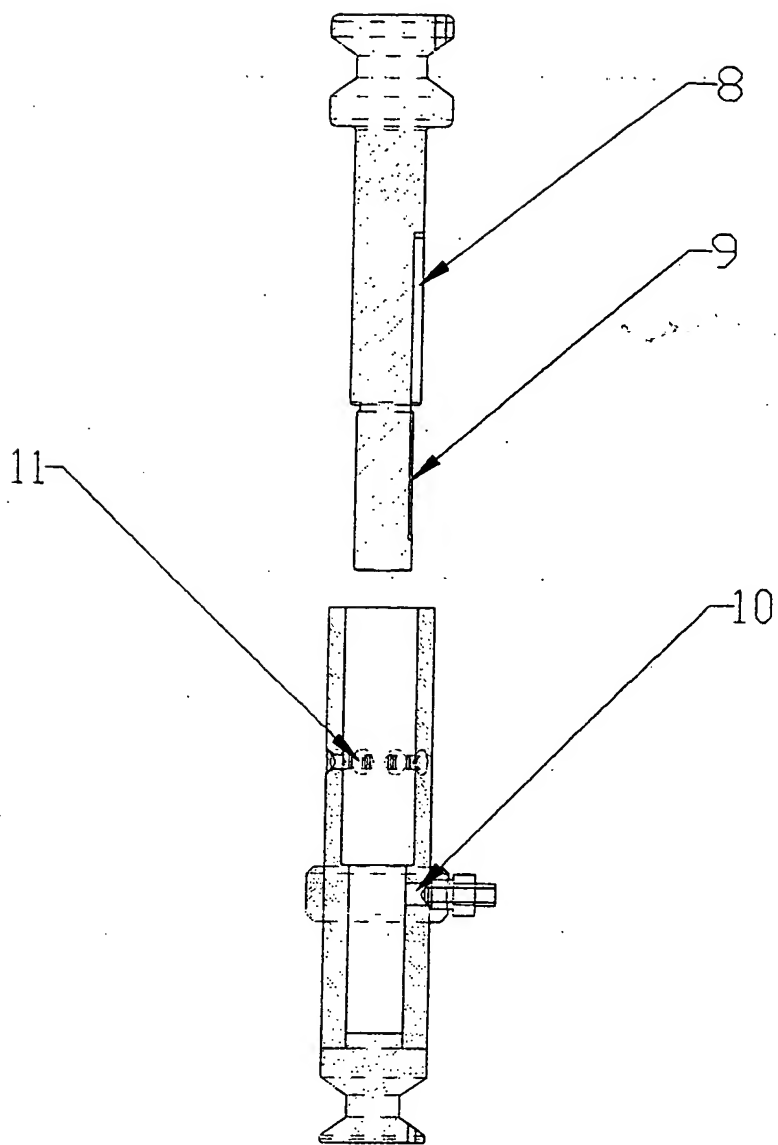


Figure 2

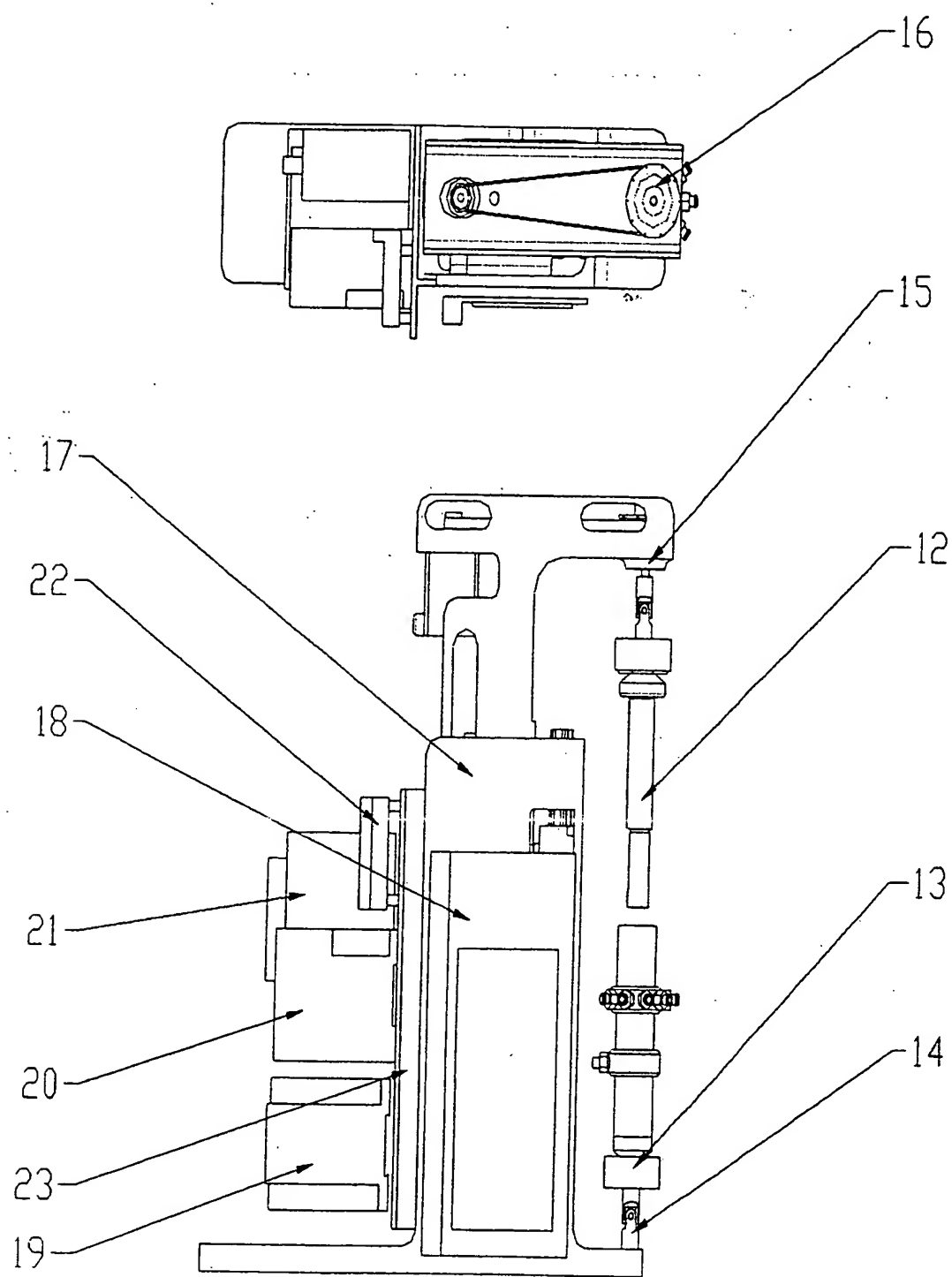


Figure 3

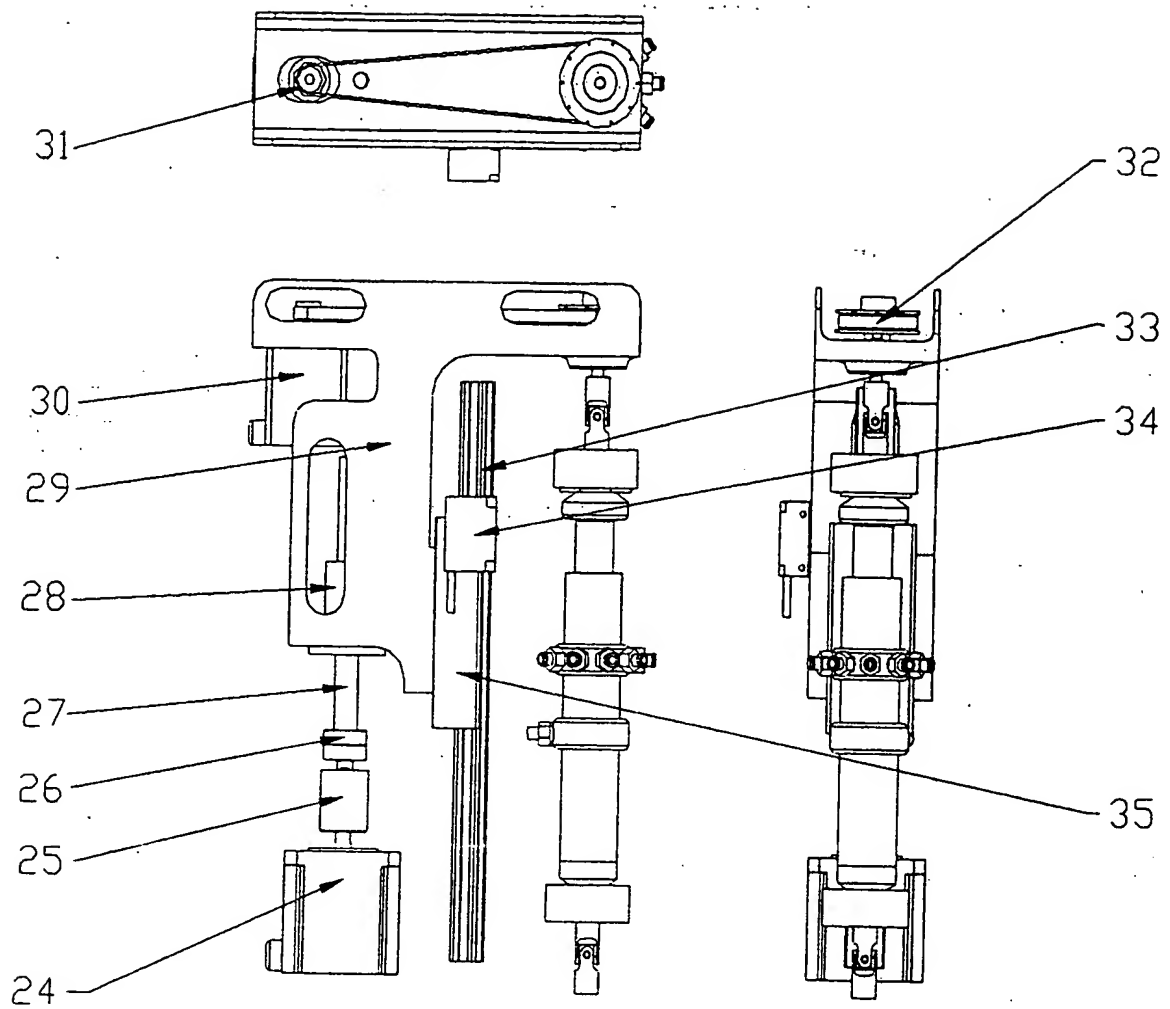
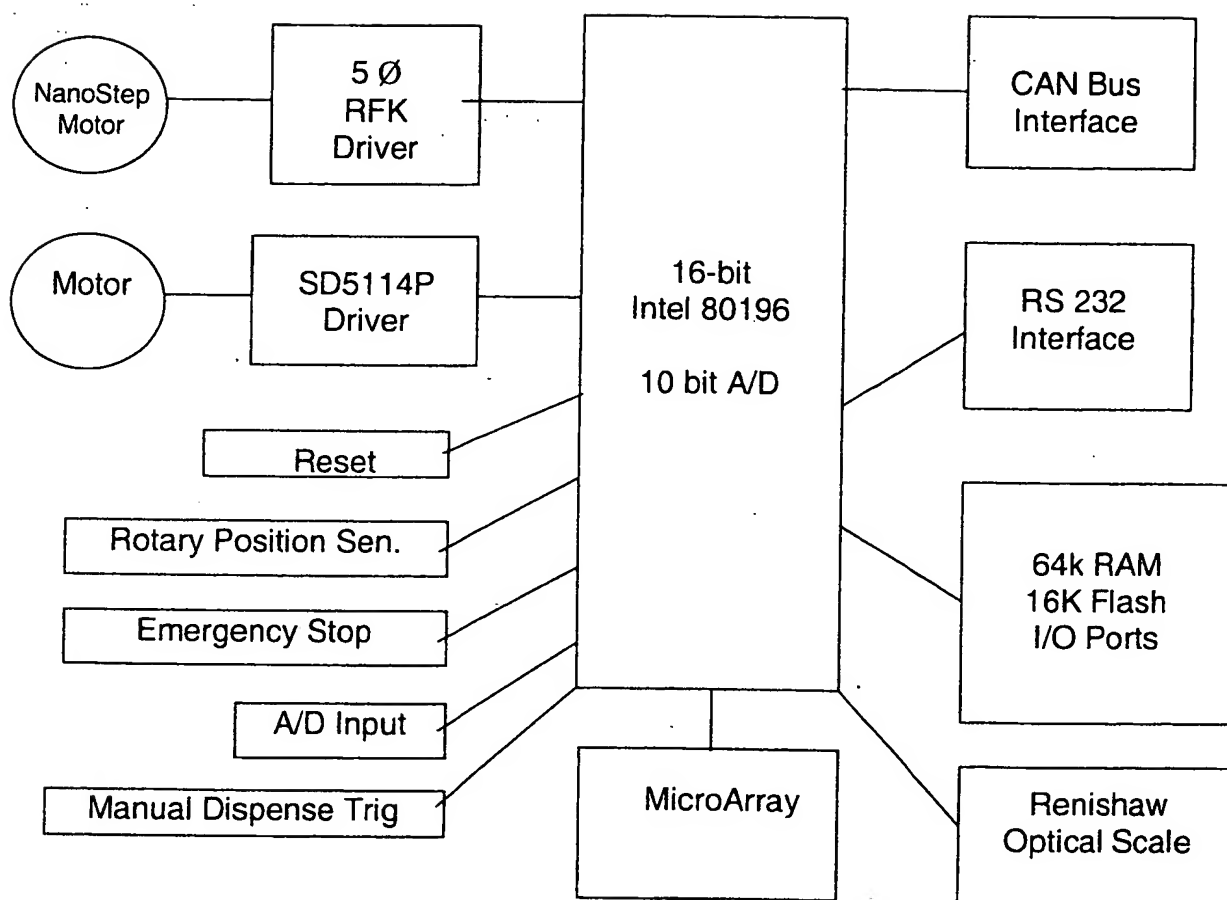
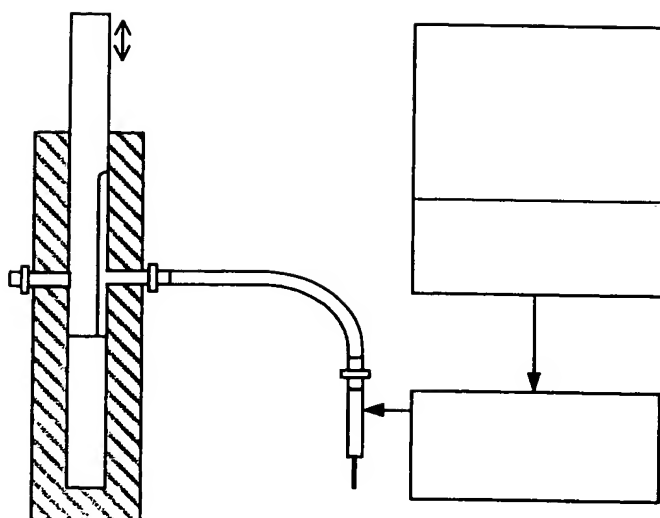


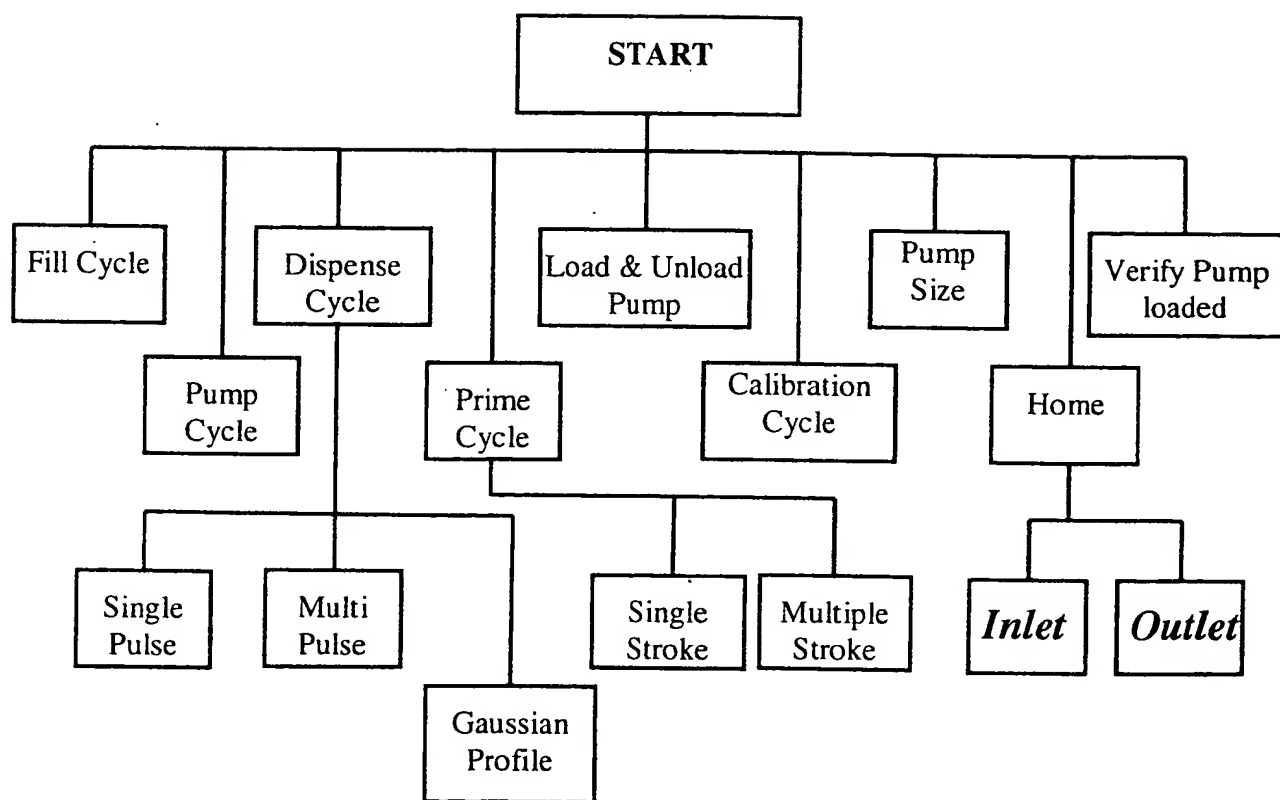
Figure 4



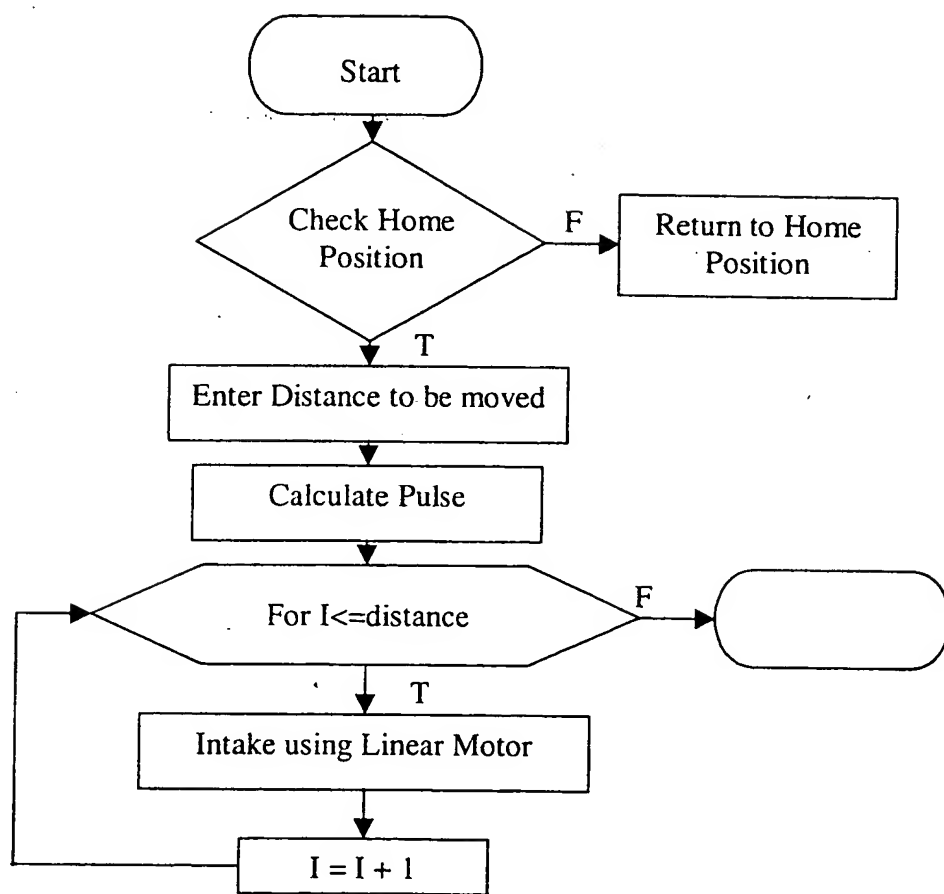
*Figure 5*



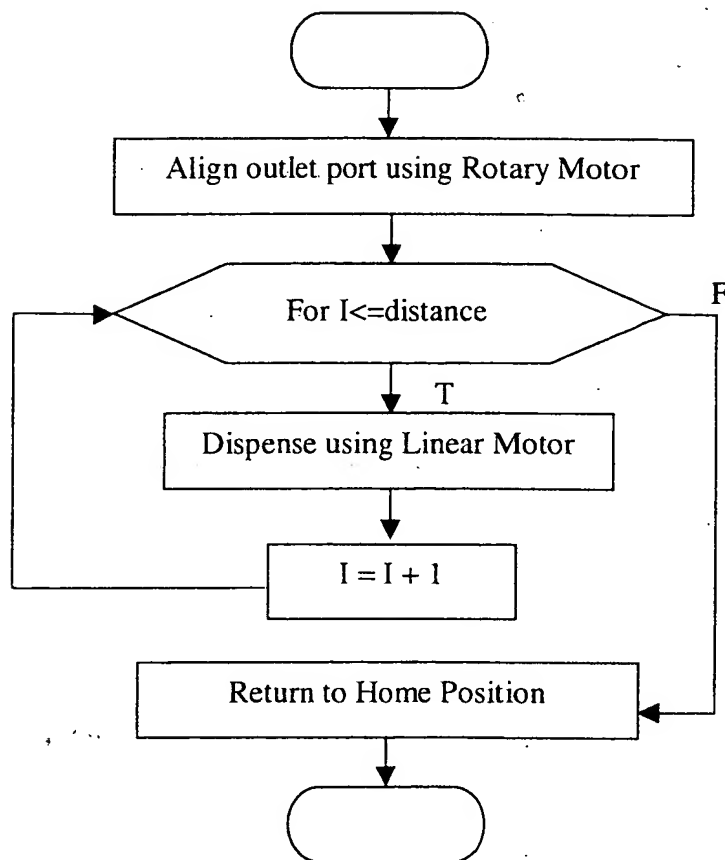
*Figure 6*



*Figure 7*



*Figure 8*



**Figure 9**

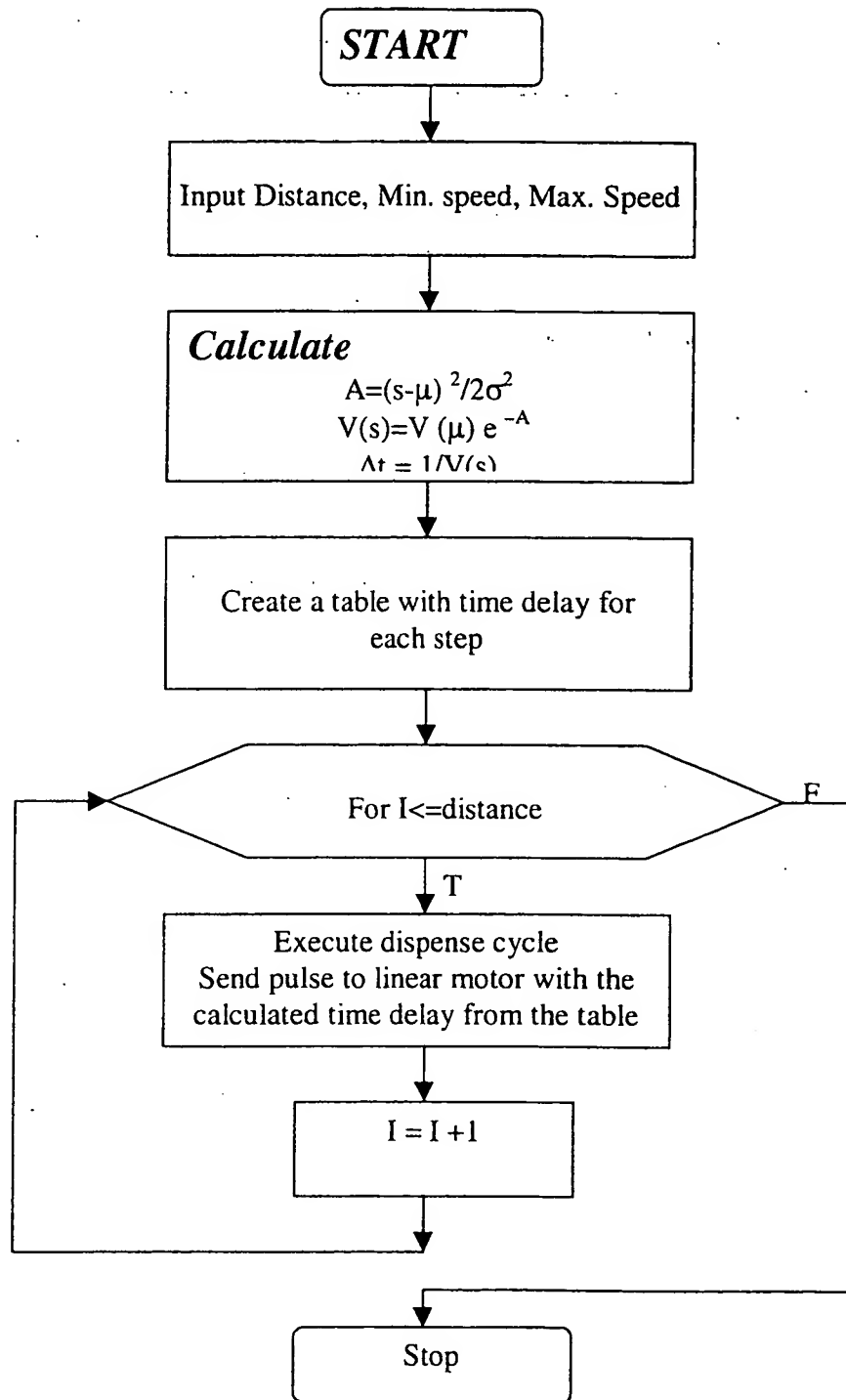
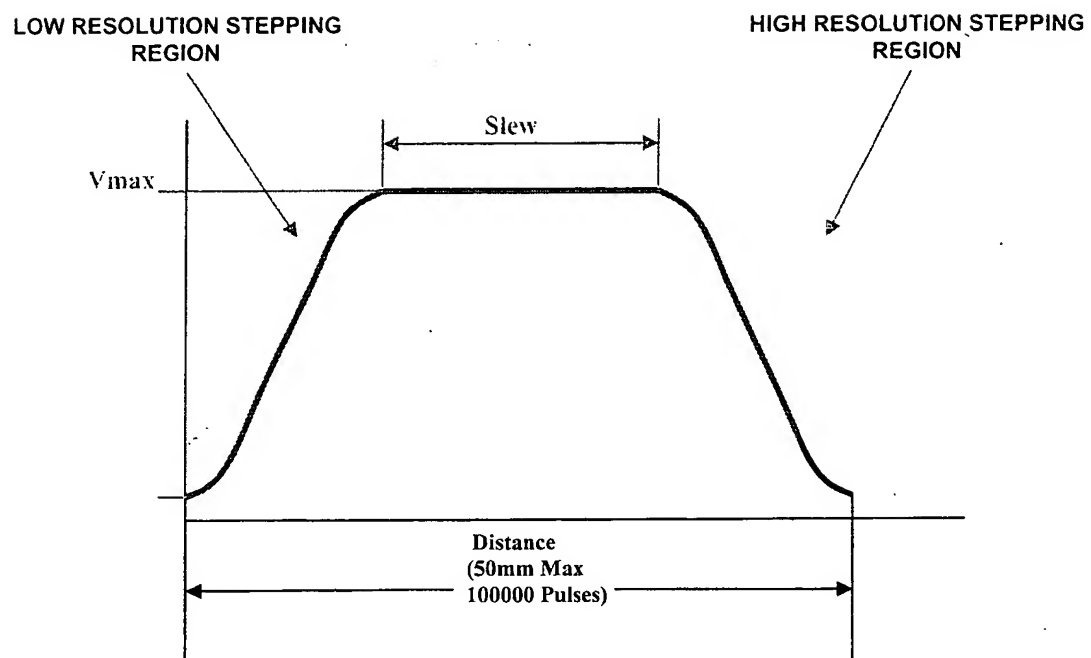


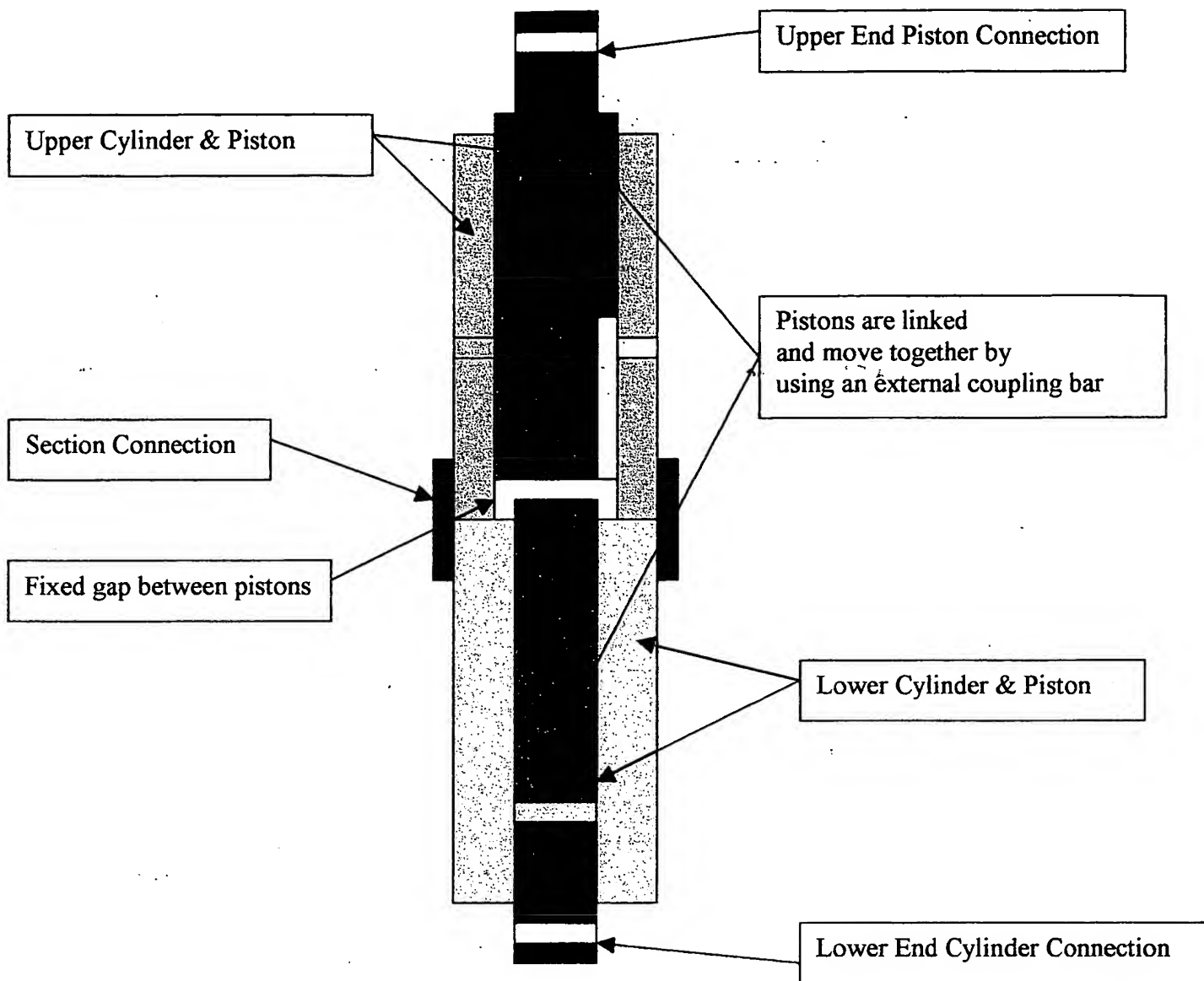
Figure 10

Setting	Resolution		mm Motion Per Step	No. Steps to Move 0.5 Micron	
	Step Angle	Steps/Rev			
1	0.72	500	0.01		0.050
2	0.36	1000	0.005		0.100
3	0.288	1250	0.004		0.125
4	0.18	2000	0.0025		0.200
5	0.144	2500	0.002		0.250
6	0.09	4000	0.00125		0.400
7	0.072	5000	0.001		0.500
8	0.036	10000	0.0005		1.000
9	0.0288	12500	0.0004		1.250
10	0.018	20000	0.00025		2.000
11	0.0144	25000	0.0002		2.500
12	0.009	40000	0.000125		4.000
13	0.0072	50000	0.0001		5.000
14	0.00576	62500	0.00008		6.250
15	0.0036	100000	0.00005		10.000
16	0.00288	125000	0.00004		12.500

**Fig. 11**



**Fig. 12**



TWO SECTION, DUAL DIAMETER, MULTIPLE PORT PUMP

Fig. 13

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## TaperLock Connections

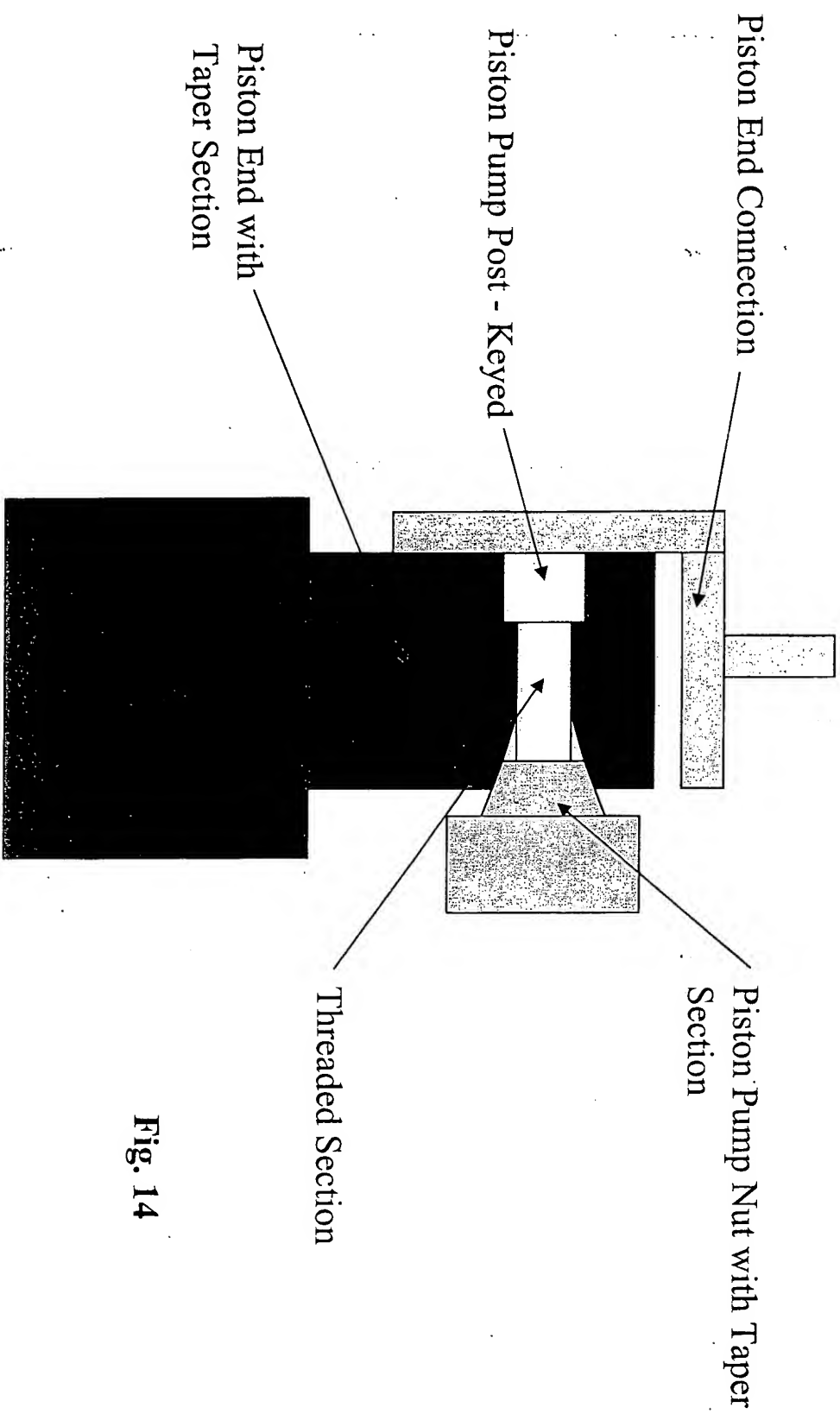


Fig. 14

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